

Results for the 14'x180' circular tank with ramp:

Circular tank:

Tank Diameter = 180 ft
 Tank Wall thickness = 12 in (actual)
 Tank Height = 14 ft
 $f_y = 60,000$ psi
 $f'_c = 4,000$ psi

Horizontal Steel = #4 rebar Steel shown in table must be placed in each face of the wall		
Bar #	Spacing (in)	Distance from finished floor (ft - in)
1	3	0' 3"
2	12	1' 3"
3	12	2' 3"
4	10	3' 1"
5	10	3' 11"
6	8	4' 7"
7	8	5' 3"
8	8	5' 11"
9	8	6' 7"
10	8	7' 3"
11	6	7' 9"
12	6	8' 3"
13	6	8' 9"
14	6	9' 3"
15	6	9' 9"
16	6	10' 3"
17	6	10' 9"
18	6	11' 3"
19	6	11' 9"
20	6	12' 3"
21	6	12' 9"
22	6	13' 3"
23	6	13' 9"

Vertical Steel = #4 @ 9" O.C. in each face.

Dowels "L" bars from tank to footing shall be #4 @ 9" O.C. at the interior mat of steel. 26" vertical leg, 10" horizontal leg

For a length of 80 feet, centered on the ramp:

Substitute #5 rebar for the #4 horizontal rebar for bars #2 to bar #12 in the tank. (11 bars in each mat of steel, 22 total).


Substitute #5 @ 9" O.C. vertical steel in each face for the #4 @ 9" O.C. vertical steel in each face.

In the tank wall, at the corner of the notch for the ramp add:

4-#6 bars x 13'-10" long @ 6" O.C. vertically in each mat of steel (8 total)

4-#6 bars x 20' long @ 6" O.C. horizontally in each mat of steel (8 total)

4-#6 bars x 6 feet long @ 6" O.C. at a 45 degree angle in each mat of steel (8 total).

 Natural Resources Conservation Services United States Department of Agriculture	_____ County, PA ROUND TANK W/RAMP DETAIL Page 6.31	Designed <u>PA NRCS</u> <u>12/01</u>
		Drawn <u>Hartz</u> <u>2/1/08</u>
		Revisions <u>Pereverzoff</u> <u>1/9/08</u>
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		Approved _____